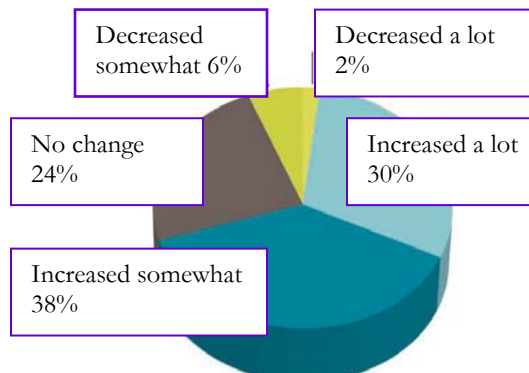


**Office of Research and
Sponsored Programs**

Stephen F. Austin State University has adopted "High-Impact Practices to Enhance Student Learning" as our Quality Enhancement Plan (QEP). High-impact practices incorporated into course content engages students in learning, which improves higher-order thinking skills and overall student success. Undergraduate research, which often includes field-based learning, are high-impact practices adopted by SFA.

ORSP is committed to supporting and promoting opportunities for undergraduate research at SFA. Visit our (new and improved!) website for a list of opportunities from programs to scholarships to publication venues.



Student interest in STEM careers after participating in undergraduate research opportunities (sciencemag.org).

Last year, research grants awarded to SFA faculty and staff included more than \$210,000 for students. These funds provided opportunities for students to conduct research, perform field work, serve as technicians, and travel to meetings to present papers, all while earning their undergraduate degrees at SFA in a variety of majors.

To learn more about how faculty can be mentors to students, and how students can find faculty members willing to support their academic interests, visit SFA's new Undergraduate Research page today.
<http://www2.sfasu.edu/orsp/undergradresearch.html>

2011 Undergraduate Research Conference: Celebrating Academic Diversity



STEPHEN F. AUSTIN STATE UNIVERSITY
IS AN INSTITUTIONAL MEMBER OF THE
COUNCIL ON UNDERGRADUATE RESEARCH
Learning Through Research

**Stephen F. Austin State University
Baker Pattillo Student Center
Regent's Suite A and Twilight Ballroom**

**Thursday, April 7, 2011
4 p.m. – 8 p.m.**

University Finalists – Poster Presentations

College of Fine Arts

- **Tiffany Craig** *Every Smile Contains A Dagger* School of Theatre – Dr. Rick Jones
- **Rose Downing** *Costume Designs for School for Scandal* School of Theatre – Angela Bacarisse
- **Naeem Munaf** *Design Los Angeles* School of Art – Peter Andrew
- **Carla Moore Reyna** *Barbara Strozzi: Shrewd Siren or Brilliant Diva?* School of Music – Dr. Jamie Weaver
- **Katrina Tarson** *Charles Darwin: Evolutionary Theory and the Theatre* School of Theatre – Dr. Rick Jones

College of Liberal and Applied Arts

- **Shannon Blow** *Influence or Deterrence: A Critical Analysis of the History and Current State of Music Videos in the US* Communication Studies Division – Dr. Sudeshna Roy
- **Lindsey K. Dodd** *Latin American Borderlands: Exploring the Favelas of Rio de Janeiro* Department of Modern Languages – Dr. Jeana Paul-Ureña
- **Blanca Jahaziel Hiriart Lozoya** *Women Leadership and Political Power in Latin America with a Focus on Argentina* Department of Government – Dr. Kristina S. Mao
- **Vivian Kempt** *Improving Closing Task Completion in a Nation-Wide Drugstore Chain* Department of Psychology – Dr. Rhiannon Fante
- **Luke Landtroop** *“What is This Life?”: Responses to Contingency in Chaucer’s Pagan Romances* Department of English – Dr. Marc Guidry
- **Cameron Mebane** *The Best Reporter in America* Global Media & Contemporary Culture Division – Dr. Gary H. Mayer
- **Terra M. Oden** *Rural Poverty: Homelessness* School of Social Work – Dr. Kim Rich-Rice
- **Jacquelyn Subar** *You Be the Judge: An In-depth Look into the History of the Nacogdoches County Courthouse* Department of History – Dr. Perky Beisel
- **Rebecca Blubaugh** *Run Like a Kenyan: How to Be An Elite Athlete the Kenyan Way* Department of English – Dr. Elizabeth Tasker-Davis
(Best Freshman Submission)

2011 SFASU University Scholars

Nelson Rusche College of Business

Chris Boatman and John Ramsey

Nacogdoches Community Research Project

Department of Economics/Finance – Dr. Stephen Kosovich

James I. Perkins College of Education

Michelle Carr and Bridget Livingston

Lighting Specification Project

School of Human Sciences – Dr. Mitzi Perritt

College of Fine Arts

June Parker

Nacogdoches Library Mural

School of Art – Peter Andrew

Arthur Temple College of Forestry and Agriculture

Halden Packard

Carbon, Phosphorus, and Nitrogen Removal from Waste Water Treatment Plant Effluent

Division of Environmental Science – Dr. Sheryll B. Jerez

College of Liberal and Applied Arts

Zachary Overfield

Discussion of the Evolving State of Viking Age Religious Practices and Gender Roles as Visible Through the Archaeological Record of Boat Burials and Literature

Department of Social and Cultural Analysis – Dr. Leslie G. Cecil

College of Sciences and Mathematics

Katie Mitchell and Sherri Dornak

Delineating Karst Springs within the Colorado River Using Geochemical Variability, Colorado Bend State Park, Central Texas

Department of Geology – Dr. Kevin W. Stafford

University Finalists – Poster Presentations

Nelson Rusche College of Business

- **Candace Clanahan, Jason B. Crager, and Michael York** *The K.E.E.P. Program* Department of General Business – Judith Biss
- **David Hernandez and Uriel Luna** *Examining the Student Investment Roundtable Fund's Returns* Department of Economics and Finance – Dr. Ryan Phelps
- **Charles McWhorter, Jessica Patterson, Jason Sikorski, and Clay Wheeler** *Team F.I.T. Get Involved. Join Our Team* Department of General Business – Judith Biss
- **Michael York** *Consumers Perceived Risk of Smartphones* Department of General Business – Dr. S. Ann Wilson

James I. Perkins College of Education

- **Jonathan Denton** *Understanding Student Perceptions of Physical Education Related to Academic Performance* Department of Kinesiology and Health Science – Dr. Dean Kniss
- **Megan Ervin** *How to Become Involved with the United States Olympic Committee* Department of Kinesiology and Health Science – Dr. Linda Bobo
- **Sarah Guyer** *Co-parenting: Your Marriage May Be Over, but Your Family is Not* School of Human Sciences – Dr. Tara Newman
- **Kathleen Higgins** *Choreographic Design and Process of "What About Me?"* Department of Kinesiology and Health Science – Michael Stanford Bobo
- **Jacqueline Hooton Huntley** *A Description of the Effectiveness of a Guided Reading Internship Project* Department of Elementary Education – Dr. Jannah Nerren
- **Wesley Kephart** *A Biomechanical Analysis of the Weight Training Squat* Department of Kinesiology and Health Science – Dr. Sandra Cole
- **Noelle Norman** *Green Tea Aids in Overall Health* School of Human Sciences – Dr. Darla O'Dwyer
- **Jenifer Pickett and Lindsey Tatum** *The Development of Self-Perception of Creative Abilities* Department of Secondary Education and Educational Leadership – Dr. Kenneth R. Austin
- **Tameika Sanchez and Ashley Watkins** *It Takes a Village to Raise a Healthy Child: Collaborative Strategies for Nourishment of American Youth* School of Human Sciences – Dr. Tara Newman

University Finalists – Poster Presentations

College of Sciences and Mathematics

- **Sherri Dornak and Katie Mitchell** *Conduit Geometry of Karst Springs Examined by Heat-Transport Modeling and Thermal Patterns, Colorado Bend State Park, Texas* Department of Geology – Dr. Kevin W. Stafford
- **Mireya Martinez** *Spectroscopic (IR, NMR, UV-Vis), Theoretical Study and Optical Properties of 9,10-dihydrobenzo(a)pyrene-7(8H)-one and 7, 8, 9, 10-tetrahydrobenzo(a)pyrene* Department of Chemistry – Dr. Kefa K. Onchoke
- **Ryan Melton** *Axiomatic Foundations of Mathematics* Department of Mathematics and Statistics – Dr. Clint Richardson
- **Amanda H. Nolan** *Analysis of Critical Amino Acid Residues in UNC45 Necessary for its Interaction with Myosin* Department of Chemistry – Dr. Odutayo O. Odunuga
- **Joshua P. Perry** *Using DSC Analysis to Construct a Binary Phase Diagram* Department of Chemistry – Dr. Alyx S. Frantzen
- **Elton I. Polvadore** *Generation and Cloning of Full-Length Human EVC Gene from its Fragments* Department of Chemistry – Dr. Odutayo O. Odunuga

Arthur Temple College of Forestry and Agriculture

- **Trevor Barnett and Seth M. Kinard** *Geospatial Analysis of the Historical Population Change in Texas* Division of Forestry – Dr. Yanli Zhang
- **Alexandria Bryant** *Texas Black Bears* Division of Forestry – Dr. Christopher Comer
- **Robert Burke, Christopher Kossegi, Max Wayne Jackson** *Landscape Ecological Analysis of Surface Water Quality on Stephen F. Austin State University* Division of Forestry – Dr. David L. Kulhavy and Dr. Matthew McBroom
- **David Jamar** *The Use of the Resistograph and the CTLA Method in Teaching Urban Forestry* Division of Forestry – Dr. David Kulhavy, Dr. Warren Conway, and Dr. Hans M. Williams
- **Seth M. Kinard** *Impact of Rising Sea Levels on the Greater Galveston Bay Area* Division of Forestry – Dr. Yanli Zhang
- **Jessica Lee** *Implementing the No Child Left Inside SFA101 Challenge into College Student's Lives* Division of Forestry – Dr. David L. Kulhavy
- **Madison Timme** *Utilizing Industrial Fly Ash to Raise Soil pH* Division of Environmental Science – Dr. Kenneth Farrish

Schedule of Events

Regent's Suite A

- 4:00 – 4:10 Opening announcements, Dr. Eric Jones
4:10 – 4:40 Presentation of awards to University Scholars and Finalists by Provost Dr. Richard Berry

University Scholar presentations

4:40-4:50 Chris Boatman and John Ramsey *Nacogdoches Community Research Project*– Dr. Stephen Kosovich (Nelson Rusche College of Business/Department of Economics and Finance)

4:50-5:00 June Parker *Nacogdoches Library Mural* School of Art –Peter Andrew (College of Fine Arts/School of Art)

5:00-5:10 Zachary Overfield *Discussion of the Evolving State of Viking Age Religious Practices and Gender Roles as Visible Through the Archaeological Record of Boat Burials and Literature* – Dr. Leslie G. Cecil (College of Liberal and Applied Arts/Department of Social and Cultural Analysis)

5:10-5:20 Halden Packard *Carbon, Phosphorus, and Nitrogen Removal from Waste Water Treatment Plant Effluent* – Dr. Sheryll B. Jerez (Arthur Temple College of Forestry and Agriculture/Division of Environmental Science)

5:20-5:30 Katie Mitchell and Sherri Dornak *Delineating Karst Springs within the Colorado River Using Geochemical Variability, Colorado Bend State Park, Central Texas*– Dr. Kevin W. Stafford (College of Sciences and Mathematics/Department of Geology)

5:30-5:40 Michelle Carr and Bridget Livingston *Lighting Specification Project* – Dr. Mitzi Perritt (James I. Perkins College of Education/School of Human Sciences)

Twilight Ballroom

5:40-8:00 Poster Presentations of Finalists
Refreshments served

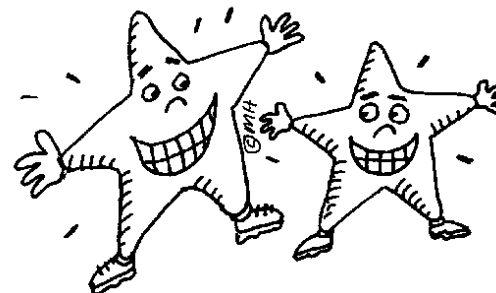
Undergraduate Research at SFASU

Each year SFASU holds the Undergraduate Research Conference to celebrate the academic achievements and scholarly excellence of its undergraduate students. This year's conference showcases student projects completed across SFASU's six colleges over the previous academic year.

Any paper or project composed or performed during the previous calendar year (in this case, 2010) as part of an undergraduate course requirement or as a faculty-supervised independent project was eligible for the competition.

For more information about this program and works of past winners, please visit our website:

<http://www.sfasu.edu/honors/urc/index.asp>



Special thanks to the Office of the Provost & Vice President of Academic Affairs, the School of Honors, and the Office of Research and Sponsored Projects.

URC Executive Committee: Dr. Leslie G. Cecil, Dr. Eric Jones,
and Dr. Michael Tkacik